1000
1
. H
e ner Came
£.,
æ
4.2
Ŀ
4.
į.

2/52	3/52
Fig.1(i)	Fig.1(ii)
4/52	5/52
Fig.1(iii)	Fig.1(iv)

1	TCG	GCCT	CC G	AAAC	Me		T CTG e Leu
50				CTG Leu 15			
98				GAA Glu			
146				TAT Tyr			
194				CAG Gln			
242				CCC Pro			
290				GTG Val 95			
338	CGG Arg			CCT Pro			

Fig.1(i)

	Ser	GTG Val			49
		TGG Trp			97
		GAA Glu			145
		ATC Ile 55		GTG Val	193
		TAC Tyr			241
		TGC Cys			289
		ACC Thr		ATG Met	337
		GAG Glu			 385

Fig.1(ii)

386				AAA Lys				
434				TGT Cys				
482				CAG Gln				
530				AGG Arg 175				
578			AGG Arg 190		TGAG	GCGG	GC A	AGGAG
630	GAAC	CAGA	TC T	CTCA	CCAG	G		

Fig.1(iii)

	AAG Lys						CAA Gln	433
	CGG Arg						GTA Val 155	481
	TGC Cys 165							529
	GAA Glu							577
GAAC	GG AC	CCTC	CCTC	C AGO	CGTTI	CGG		629
								649

Fig.1(iv)

6/52

7/52	8/52
Fig.2(i)	Fig. 2 (ii)
9/52	10/52
Fig 2(iii)	Fig 2(iv)
11/52	12/52
Fig 2(v)	Fig 2(vi)

SUBSTITUTE SHFFT (Rule 26)

1	CC	ATG Met 1		CTG Leu		
48					ı Ala	GTC Val
96		AGG Arg				
144		CCC Pro				
192		GCC Ala 65				
240		TGC Cys				
288		GTC Val				
336		GAG Glu				

Fig.2(i)

מווופדודודוד פוודדי וויווי פר

		C GCC G u Ala A 0				47
		T GAT GO				95
GAT	GTG TAT Val Tyr	ACT CO	GC GCT g Ala 45	ACC T	GC Ys	143
TTG A	ACT GTG Thr Val	GAG CT Glu Le	C ATG (u Met (0	GGC A Gly T	.CC hr	191
TGC G	STG ACT al Thr	GTG CA Val Gl 75	G CGC : n Arg (IGT G Cys G	GT ly	239
GAG T Glu C	GT GTG ys Val 90	CCC AC	T GGG (r Gly G	3ln H	AC is 95	287
Ile A		CCG AGO	ser G	CAG CT Sln Le		335
		GAA TGO				383

Fig. 2(ii)

384	AAG Lys				
432	CCC Pro 145				
480	TCC Ser				
528	CAC His			 	
576	GCC Ala				

Fig. 2(iii)

								431
								479
								527 •
								575
							Т	624
GGC Gly CCC Pro AGC Ser	Asp Arg GGC TGG Gly Trp CCC ACT Pro Thr AGC GCC Ser Ala 185 TCC TCC Ser Ser	Asp Arg Ala GGC TGG GAC Gly Trp Asp CCC ACT CCA Pro Thr Pro 170 AGC GCC CTG Ser Ala Leu 185 TCC TCC GTT Ser Ser Val	Asp Arg Ala Ala GGC TGG GAC TCT Gly Trp Asp Ser 155 CCC ACT CCA GCC Pro Thr Pro Ala 170 AGC GCC CTG ACC Ser Ala Leu Thr 185 TCC TCC GTT GCC Ser Ser Val Ala	Asp Arg Ala Ala Thr 140 GGC TGG GAC TCT GCC Gly Trp Asp Ser Ala 155 CCC ACT CCA GCC CCA Pro Thr Pro Ala Pro 170 AGC GCC CTG ACC CCC Ser Ala Leu Thr Pro 185 TCC TCC GTT GCC AAG Ser Ser Val Ala Lys	Asp Arg Ala Ala Thr Pro 140 GGC TGG GAC TCT GCC CCC Ala Pro 155 CCC ACT CCA GCC CCA GGC Pro Thr Pro Ala Pro Gly 170 AGC GCC CTG ACC CCC GGA Ser Ala Leu Thr Pro Gly 185 TCC TCC GTT GCC AAG GGC Ser Ser Val Ala Lys Gly	Asp Arg Ala Ala Thr Pro His 140 GGC TGG GAC TCT GCC CCC GGA Pro Thr Pro Ala Pro Gly Pro 170 AGC GCC CTG ACC CCA GGC CCC Pro Thr Pro Ala Pro Gly Pro 170 AGC TCC CTG ACC CCC GGA CCT Ser Ala Leu Thr Pro Gly Pro 190 TCC TCC GTT GCC AAG GGC GGG Ser Ser Val Ala Lys Gly Gly	Asp Arg Ala Ala Thr Pro His His 140 GGC TGG GAC TCT GCC CCC GGA GCA Ser Ala Pro Gly Pro Ser 170 ACC ACT CCA GCC CCA GGC CCC TCT Pro Thr Pro Ala Pro Gly Pro Ser 170 AGC GCC CTG ACC CCC GGA CCT GCC Ser Ala Leu Thr Pro Gly Pro Ala 190 TCC TCC GTT GCC AAG GGC GGG GCT Ser Ser Val Ala Lys Gly Gly Ala	GGC TGG GAC TCT GCC CCC GGA GCA Gly Trp Asp Ser Ala Pro Gly Ala 155 CCC ACT CCA GCC CCA GGC CCC TCT Pro Thr Pro Ala Pro Gly Pro Ser 170 AGC GCC CTG ACC CCC GGA CCT GCC Ser Ala Leu Thr Pro Gly Pro Ala 190 TCC TCC GTT GCC AAG GGC GGG GCT T Ser Ser Val Ala Lys Gly Gly Ala

Fig.2(iv)

625	AGAGCTCAAC	CCAGACACCT	GCAGGTGCCG
685	GACTCAGCAG	GGTGACTTGC	CTCAGAGGCT
745	GĞTAAAAAAC	AGCCAAGCCC	CCAAGACCTC
805	GCCTCTCAGA	GGGCTCTTCT	GCCATCCCTT
865	GAGTTGGAAG	AGGAGACTGG	GAGGCAGCAA
825	GGAGTACTGT	CTCAGTTTCT	AACCACTCTG
985	CTCCCCTCAC	TAAGAAGACC	CAAACCTCTG
1045	CTGTGACCCC	CAACCCTGAT	AAAAGAGATG

Fig. 2(v)

GAAGCTGCGA	AGGTGACACA	TGGCTTTTCA	684
ATATCCCAGT	GGGGGAACAA	AGGGGAGCCT	744
AGCCCAGGCA	GAAGCTGCTC	TAGGACCTGG	804
GTCTCCCTGA	GGCCATCATC	AAACAGGACA	864
GAGGGGTCAC	ATACCAGCTC	AGGGGAGAAT	924
TGCAAGTAAG	CATCTTACAA	CTGGCTCTTC	984
CATAATGGGA	TTTGGGCTTT	GGTACAAGAA	1044
GAAGGAAAA	AAAAAAAA		1094

Fig.2(vi)

14/52	15/52
Fıg. 3(ı)	Fig.3(ıi)

>VEGF_HUMAN VEGF_HUMAN VASCULAR ENDOTHELIAL (VASCULAR 215 AA. LENGTH = 215

SCORE = 181 (92.4 BITS), EXPECT = 6.4e-20, IDENTITIES = 33/75 (44%), POSITIVES = 48/75

QUERY: 31 HQRKVVSWIDVYTRATCQPREVVVPLTVEL

+++ VV +DVY R+ C+P E +V \div E

SBJCT: 36 NHHEVVKFMDVYQRSYCHPIETLVDIFQEY

QUERY: 91 PTGQHQVRMQILMIR 105

PT + MOI + I +

SBJCT: 96 PTEESNITMQIMRIK 110

SCORE = 76 (38.8 BITS), EXPECT = 0.0011, IDENTITIES = 12/19 (63%), POSITIVES = 16/19

QUERY: 110 QLGEMSLEEHSQCECRPKK 128

++GEMS +H+ CECRPKK

SBJCT: 116 HIGEMSFLQHNKCECRPKK 134

SCORE = 72 (36.8 BITS), EXPECT = 0.0046, IDENTITIES = 14/21 (66%), POSITIVES = 15/21

QUERY: 202 RCQGRGLELNPDTCRCRKLRR 222

RC +R LELN TCRC K RR

SBJCT: 195 RCKARQLELNERTCRCDKPRR 215

SCORE = 46 (23.5 BITS), EXPECT = 47., IDENTITIES = 6/10 (60%), POSITIVES = 9/10

QUERY: 187 DPRTCRCRCR 196

DP+TC+C C+

SBJCT: 181 DPQTCKCSCK 190

THE SHEET (BUILE SE) Fig. 3 (i)

GROWTH FACTOR PRECURSOR (VEGF)

P = 6.4e-20 (64%)

MGTVAKQLVPSCVTVQRCGGCCPDDGLECV 90 + PSCV + RCGGCC D+GLECV PDEIEYIFKPSCVPLMRCGGCCNDEGLECV 95

POISSON P(2) = 9.1e-12 (84%)

POISSON P(3) = 3.6e-18 (71%)

POISSON P(4) = 7.3e-10 (90%)

Fig. 3(i)

17/52	18/52
Fig.4(i)	Fig 4(ii)
19/52	20/52
Fig.4(iii)	Fig.4(iv)

Length Wei Qual	ity:100.9 Length:739
Percent	tio:0.175 Gaps:30 Percent ity:69.703 Identity:69.703
28	ATGAGCCCTCTGCTCCGCCGCCTGC
17	ATGAACTTTCTGCTGTCT
68	TGCAGCTGGCCCCGCCCAGGCCCC
57	
118	CACCAGAGGA
106	 AGAAGGAGGAGGCAGAATCATCAC
140	GTGTATACTCGC.GCTACCTGCCAG
152	
194	TGACTGTGGAGCTCAT
201	TCCAGGAGTACCCTGATGAGATCGA
235	CCCAGCTGCGTGACTGTGCAGCGCT
239	CCATCCTGTGTGCCCCTGATGCGAT
285	CCTGGAGTGTGTGCCCACTGGGCAG .
289	CCTGGAGTGTGCCCACTGAGGAG

Fig.4(i)

CURCULULE SHEET (Rule 26)

TGCTCGCCGCACTCC	67
	56
TGTCTCCCAGCCTGATGCCCCTGGC	117
GTGGTCCCAGGCTGCA.CCCATGGC	105
AAGTGGTGTCATGGATAGAT	147
GAAGTGGTGAAGTTCATGGAT	151
CCCCGGGAGGTGGTGGTGCCCT	193
CCAATCGAGACCCTGGTGGACATCT	200
GGGCACCGTGGCCAAACAGCTGGTG	234
GTACATCTTCAAG	238
GTGGTGGCTGCCTGACGATGG	284
GCGGGGCTGCTGCAATGACGAGGG	288
CACCAAGTCCGGATGCAGAT	329
TCCAACATCACCATGCAGATTATGC	338

Fig.4(ii)
SUBSTITUTE SHEET (RULE 26)

330	CCTCATGATCCGGTACC
339	GGATCAAACCTCAC
369	GTCCCTGGAAGAACACAGCCAGTGT
376	GAGCTTCCTACAGCACAACAAATGT
419	GTGCTGTGAAGCCAGACAGGGCTGC
423	
469	CGTTCTGTTCCGGGCTGGGACTCTG
443	TGTGGGCCTTGCTCAGA
519	CATCACCCATCCCACTCCAGCCCCA
468	
569	GCACCACCAGCGCCC
469	GCATTTGTTTGTACAA
609	TGCCGACGCCGCAGCTTCCTCCGTT .
509	TG.CAAAAACACAGACTCGCGTT
657	AACCCAGACACCTGCAGGTGCCGGA
554	AACGAACGTACTTGCAGATGTGACA
	Fin 4(iii)

CGAGCAGTCAGCTGGGGGAGAT	368
CAAGGCCAGCACATAGGAGAGAT	375
GAATGCAGACCTAAAAAAAAGGACA	418
GAATGCAGACCAAAGAAAGATA	422
CACTCCCCACCACCGTCCCCAGCCC	468
AAAATCCC	442
CCCCCGGAGCACCCTCCCCAGCTGA	518
GCGGAGAA	467
GGCCCTCTGCCCACGCTGCACCCA	568
A	468
TGACCCCGGACCTGCCGC	608
	508
GCCAAGGGCGGGCTTAGAGCTC	656
GCAAGGCGAGGCAGCTTGAGTTA	553
AGCTGCGAAGGTGA	695
AGCCGAGGCGGTGA	592

Fig.4(iv)

22/52	23/52	24/52
F1g 5(i)	Fig.5(iı)	Fig 5(m)
25/52	26/52	27/52
Fig.5(iv)	Fig.5(v)	Fig 5(vi)

165SOMSQ.MSF.msf MSF:687 Type: D Tuesday, June 20, 1995 Check: 3140 ATGAACTTTCTGCTGTCTTGGGTG VEGF165 ATGAGCCCTCTGCTCCGCCGCCTG SOM175 SOM175-e6 ATGAGCCCTCTGCTCCGCCGCCTG SOM175-e6&7 ATGAGCCCTCTGCTCCGCCGCCTG SOM175-e4 ATGAGCCCTCTGCTCCGCCGCCTG 81 VEGF165 CACCCATGGCAGAAGGAGGAGGGC SOM175 TGCCCCTGGCCACCAGAGGAAAGT SOM175-e6 TGCCCCTGGCCACCAGAGGAAAGT SOM175-e6&7 TGCCCCTGGCCACCAGAGGAAAGT SOM175-e4 TGCCCCTGGCCACCAGAGGAAAGT 161 VEGF165 CCAATCGAGACCCTGGTGGACATC SOM175 GTGGTGCCCTTGACTG.TGGA SOM175-e6 GTGGTGCCCTTGACTG.TGGA SOM175-e6&7 GTGGTGCCCTTGACTG.TGGA SOM175-e4 GTGGTGCCCTTGACTG.TGGA 241 VEGF165 GATGCGATGCGGGGGCTGCTGCAA SOM175 GCAGCGCTGTGGTGGCTGCTGCCC SOM175-e6 GCAGCGCTGTGGTGGCTGCTCCC SOM175-e6&7 GCAGCGCTGTGGTGGCTGCTCCC SOM175-e4 GCAGCGCTGTGGTGGCTGCTCCC

Fig.5(i)

CATTGGAGCCTTGCCTTGCTCTACC
CTGCTCGCCGCACTCCTGCAGCTGGCCC
CTGCTCGCCGCACTCCTGCAGCTGGCCC
CTGCTCGCCGCACTCCTGCAGCTGGCCC

AGAATCATCACGAAGTGGTGAAGTTCAT GGTGTCATGGATAGATGTGTATACTCGC GGTGTCATGGATAGATGTGTATACTCGC GGTGTCATGGATAGATGTGTATACTCGC GGTGTCATGGATAGATGTGTATACTCGC

TTCCAGGAGTACCCTGATGAGATCGAGT GCTCATGGGCACCGTGGCCAAAC..AGC GCTCATGGGCACCGTGGCCAAAC..AGC GCTCATGGGCACCGTGGCCAAAC..AGC

TGACGAGGGCCTGGAGTGTGTGCCCACT TGACGATGGCCTGGAGTGTGTGCCCACT TGACGATGGCCTGGAGTGTGTGCCCACT TGACGATGGCCTGGAGTGTGTGCCCACT TGACGATGGCCTGGAGTGTGTGCCCACT

Fig.5(ii)

80
TCCACCATGCCAAGTGGTCCCAGGCTG.
CCGCCCAGGCCCTGTCTCCCAGCCTGA
CCGCCCAGGCCCTGTCTCCCAGCCTGA
CCGCCCAGGCCCTGTCTCCCAGCCTGA
CCGCCCAGGCCCTGTCTCCCAGCCTGA
160
GGATGTCTATCAGCGCAGCTACTGCCAT
GCTACCTGC.CAGCC.CCGGGAG
GCTACCTGC.CAGCC.CCGGGAG
GCTACCTGC.CAGCC.CCGGGAG
GCTACCTGC.CAGCC.CCGGGAG
240
ACATCTTCAAGCCATCCTGTGTGCCCCT
TGGTGCCCAGCTGCGTGACTGT
TGGTGCCCAGCTGCGTGACTGT
TGGTGCCCAGCTGCGTGACTGT
TGGTGCCCAGCTGCGTGACTGT
320
GAGGAGTCCAACATCACCATGCAGATTA
GGGCAGCACCAAGTCCGGATGCAGATCC
$\tt GGGCAGCACCAAGTCCGGATGCAGATCC$
$\tt GGGCAGCACCAAGTCCGGATGCAGATCC$
GGGCAGCACCAAGTCCGGATGCAGA

Fig.5(iii)

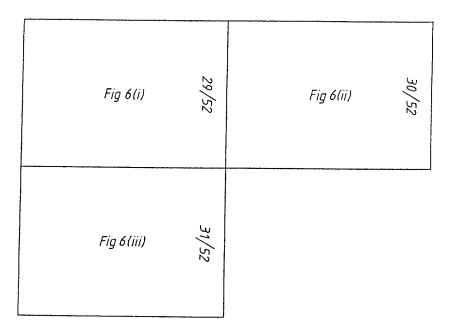
WO 96/27007	+ PCT/AU96/0009
	25/92 13 13/16
VEGF165 SOM175 SOM175-e6 SOM175-e6&7 SOM175-e4	321 TGCGGATCAAACCTCACCAAGGCC TCATGATCCGGTACCCGAGCA TCATGATCCGGTACCCGAGCA TCATGATCCGGTACCCGAGCA
VEGF165 SOM175 SOM175-e6 SOM175-e6&7 SOM175-e4	401 AAGAAAGATAGAGCAA AAAAAGGACAGTGCTGTGAAGCCA AAAAAGGACAGTGCTGTGAAGCCA AAAAAGGACAGTGCTGTGAAGCCA AAAAAGGACAGTGCTGTGAAGCCA
VEGF165 SOM175 SOM175-e6 SOM175-e6&7 SOM175-e4	481AAGCA CTCTGCCCCCGGAGCACCCTCCCCCTCTGCCCCCGGAGCACCCTCCCC
VEGF165 SOM175 SOM175-E6 SOM175-e6&7 SOM175-e4	561 AGATCCGCA GCACCACCAGCGCCCTGACCCCCG GCACCACCAGCGCCCTGACCCCCG GCACCACCAGCGCCCTGACCCCCG
VEGF165 SOM175 SOM175-e6 SOM175-e6&7 SOM175-e4	TTGAGTTAAACGAACGTACTTGCA TAGAGCTCAACCCAGACACCTGCA TAGAGCTCAACCCAGACACCTGCA TAGAGCTCAACCCAGACACCTGCA TAGAGCTCAACCCAGACACCTGCA Fig.5(iv)

AGCACATAGGAGAGATGAGCTTCCTACA GTCAGCTGGGGGAGATGTCCCTGGAAGA GTCAGCTGGGGGAGATGTCCCTGGAAGA GTCAGCTGGGGGAGATGTCCCTGGAAGA
GACAAGAAAATCCCTGTGG GACAGGGCTGCCACTCCCCACCACCGTC GATAG GATAG GACAGGGCTGCCACTCCCCACCACCGTC
AGCTGACATCACCCATCCCACTCCAGCC
GACGTGTAAATGTTCCTGCAAAAAC.AC GACCTGCCGCTGCCGCTGCCGACGCCGC GACCTGCCGCTGCCGACGCCGC GACCTGCCGCTGCCGACGCCGC
GATGTGACAAGCCGAGGCGGTGA GGTGCCGGAAGCTGCGAAGGTGA GGTGCCGGAAGCTGCGAAGGTGA .GTGCCGGAAGCTGCGAAGGTGA GGTGCCGGAAGCTGCGAAGGTGA

4	00
GCACAACAATGTGAATGCAGACC	. А
ACACAGCCAGTGTGAATGCAGACCTA	AΑ
ACACAGCCAGTGTGAATGCAGACCTA	AA
ACACAGCCAGTGTGAATGCAGACCTA	AA
	AA
4	80
GCCTTGCTCAGAGCGGA	GΑ
CCCAGCCCGTTCTGTTCCGGGCTGG	GA
• • • • • • • • • • • • • • • • • • • •	
CCCAGCCCGTTCTGTTCCGGGCTGG	GΑ
5	60
TTTGTTTGTAC.	. A
CCAGGCCCTCTGCCCACGCTGCACC	
	CA
CCAGGCCCTCTGCCCACGCTGCACC	
CCAGGCCCTCTGCCCACGCTGCACC	CA
	CA
CCAGGCCCTCTGCCCACGCTGCACC CCAGGCCCCTCTGCCCACGCTGCACC	CA
CCAGGCCCTCTGCCCACGCTGCACC	CA CA 40
CCAGGCCCTCTGCCCACGCTGCACC CCAGGCCCTCTGCCCACGCTGCACC 6 AGACTCGCGTTGCAAGGCGAGGCA	CA CA 40 GC
CCAGGCCCTCTGCCCACGCTGCACC CCAGGCCCTCTGCCCACGCTGCACC 6 AGACTCGCGTTGCAAGGCGAGGCA AGCTTCCTCCGTTGCCAAGGCGGGGG	CA CA 40 GC
CCAGGCCCTCTGCCCACGCTGCACC CCAGGCCCTCTGCCCACGCTGCACC 6 AGACTCGCGTTGCAAGGCGAGGCA	CA CA 40 GC
CCAGGCCCTCTGCCCACGCTGCACC CCAGGCCCTCTGCCCACGCTGCACC 6 AGACTCGCGTTGCAAGGCGAGGCA AGCTTCCTCCGTTGCCAAGGCGGGGG	CA CA 40 GC CT

Fig.5(vi)

כנוווסמיים מדווים מיווים מיווים מרו



				,					
KWSQAAP		RAATPHH	R T C R C D K A A S S V A K]	WSQAAP	X C G G C C B D Z I	A A T P H H	K N T D S .	
A A	N O	ДΩ	田女		A A O K	M Q	D R R	S K	, U.
H A P	P L	· 兄	D K		H A P	P L	• A	טט	Ц
디디	> >	· >	E I		L L A		· >	C C R R	· .
N K	S S	. ₩	A L		N O	00	. 4	E E	
	다 다	· О	A A A		L L L	다 더	. U	면 면 R R	
JK	M >	· ×	A D		1 A	X >	• K		
A A	디리	저 저	K O		A A	디리	K K	O A	
니니	HO	X X	D Dt		디디	HQ	X X	> .	
Ω ·	N K		民正		ω .	Y K	다 다	[II ·	
H L	A A A A	民民	O 1		M .	E A	民民	Н .	
	H H T	E E	C K		五二	H >	OO	田田	
M M	Дυ	UU	is in		Z C	田田	[H] [H]	K O	
S K	F M	N Q	X FI		Z Z	O D	0 0	民田二	
HH	L K	Z C	D W		N N N	E Z	K O	田田田	
디디	चि च	HH	ω H		그그	H H H H	H N N	ED CY	
[편 [대		O EI	UA		Et Ct	ĭ o	O E	C C S	
Z W	Įц <u>Г</u>	山田	MA		Z Ω	ь Г	L H	면 없 이	
Z Z	НП	디리	UΕ		N N	HT	нн	9 A	
VEGF ₁₆₅ SOM175 _{short}	VEGF ₁₆₅ SOM175 _{short}	VEGF ₁₆₅ SOM175 _{Short}	VEGF ₁₆₅ SOM175 _{Short}	OR	VEGF ₁₆₅ SOM175 _{Long}	${ m VEGF}_{165}$	VEGF ₁₆₅ SOM175 _{Long}	VEGF ₁₆₅ SOM175 _{Long}	
			CT TO						

The series of the series of

30/.	52
60 121 121 170 170 191 191	60 55 121 115 170 177 191 222
D D D D D D D D D D D D D D D D D D D	
다	
	G G C H
HR HO PA PO LH EE	н ж н с о т
но ом не по ом не	Р Н Е В В В В В В В В В В В В В В В В В В
00 00 HH HH 00 0H	ПО ОЧ · Ч НО В В · Н
五田 大田 田太	H H C C C C C C C C C C C C C C C C C C
	民民 X X ・ H S A A A・ ・ F
OH HH RD	OH HH · D KK
PS LM VV PB MR KK	ED D. EN KK
DD HH DW	MX W· HH UD LP P· LB <<
E E E E E E E E E E E E E E E E E E E	TH OO O DE
K W F K O G	HA HA O AA
V N O N A A A A A A A A A A A A A A A A A	DD NO · A HH
NE HO NO	· X WH · W KU N N O · A FF
HO HO KZ	EN NO OE DA
HHH HH O O	田田 日日 · ロ ココ
	шы д. да В В В В В В В В В В В В В В В В В В
ОД БН · К ОД № Н · К	CO CO PO CO PO CO
от <u>11</u> · Ф В Б Б Б Б Б Б Б Б Б Б Б Б Б Б Б Б Б Б Б	0 P P R L L P D C R M M M M M M M M M M M M M M M M M M
H O O O K A	HO GO HO KO
ば	RR RR DD <r RC PO DE SA</r
	NW WW UU

82

ß

Cysteines-81

Glycine-80, Valine-74

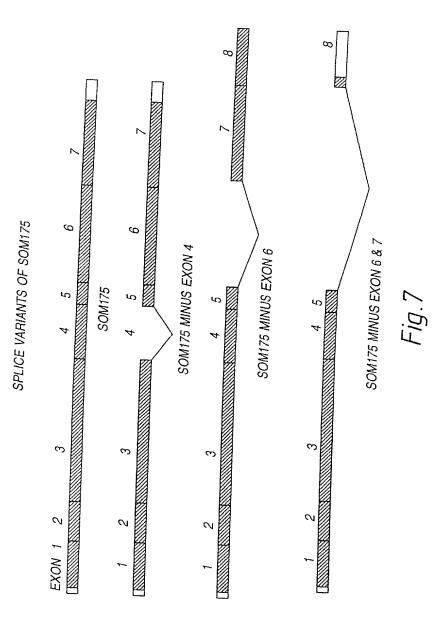
Areas of 100% homology are boxed and conserved residues thought giving depicted includes the 26 amino acid leader of which gives rise to mature $ext{VEGF}_{165})$ to be involved in homodimerisation are underlined. 191 amino acids. The VEGF sequence total length of sequence (removal ಹ

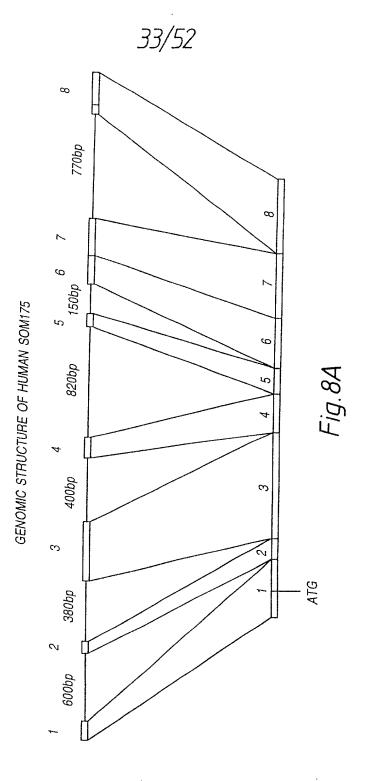
including those thought to be involved in homodimerisation Homology of SOM175 to VEGF₁₆₅ is 27% (33%) at the protein level, however within this are blocks of 100% homology In particular, many structural residues are conserved of VEGF (by comparison with PDGF). Cysteine-47

Cysteine-72, Cystein-78, Proline-91 Arginine-77, Cysteine-89, Proline-70,

Cysteines 127 & 124

FIG.6 (III)





ಇರ್ರ	aca	atg	34,	£t.	U U	tag	ዮ:
GGCCAG gtacgtgagg	GGAAAG aatacttaca	ATGCAG gtccgagatg	ATGCAG gtgtcaggca	AGACAG gtgagtettt	ccccaggccc	acacctgtag	AGG TGA 3'UTR
GGCCAG	GGAAAG	ATGCAG	ATGCAG	AGACAG	CTCCAG	ACCCAG	AGGTGA
(dano)	(43bp)	Exon 3 (187bp)	(73bp)	(34bp)	Exon, 6 (101bp)	Exon 7 (1.09bp)	(22bp)
4	Exon 2	Exon 3	Exon 4	Exon 5	Exon, 6	Exon 7	*Exon 8
	tctcccacag GCCCCT	totgctccca TGGTGT	ctgaatacag ATCCTC	acttttcaag ACCTAA	ctcctccgta GGCTGC	cccactccag CCCCAG	ccctgctcag GTGCCG
	tato	tatg	ctga	actt	ctcc	CCCA	aaat

36/52	37/52
Fig 9(i)	Fig. 9(ii)
38/52	39/52
Fig.9(iii)	Fig. 9(iv)

-163

-103

436

-43

D

gcacgageteaggecgtegetgeggegetg

gggggccgcggaggagccgcccctgcgcc

ggcggctctggctgaccccccccacaccg

		16	CGI	'CGC	CTG	CTO	CTI	GTI	GCA	CTG	CTG	CAG
			R	R	L	L	L	V	А	L	L	Q
35 Marie		77	mma	.~ ~ ~	.~~	.~~		.~. ~				<u> </u>
e di		76	.TTT	'GA'I	'GGC	CCC	:AG'I	'CAC	CAG	AAG	AAA	GTG.
Topics of the second of the se			F	D	G	P	S	Н	Q	K	K	V
		136	A C A	ምርር	יראכ	יכככ	'AGG	ימאמ	CTC	രൗവ	יכיתכי	ССТ
14												
			${f T}$	С	Q	Ρ	R	E	V	V	V	Р
		196	AAA	.CAA	СТА	.GTG	CCC	AGC	TGT	GTG	ACT	GTG
			K	0	L	V	P	S	С	V	T	V
	į		17	X	ייג	V	r	ت	C	V	1	V
"td		256	GGC	CTG	GAA	тст	'GTG	CCC	АСТ	GGG	CAA	CAC
or resid			G	L	E		V				-	Н
Trick and the second			G	Ţ.,	ŗ.	С	V	Р	${f T}$	G	Q	п
		316	TACCCGAGCAGTCAGCTGGGGGAGATGTCC									
	•		Y	P	S	S	Q	L	G	E	M	S
			-	4.	٥	D	×	- Ferrita	J	-	1.1	D
		376	CCT	AAA	AAA	AAG	GAG	AGT	GCT	GTG	AGG	CCA
			P	K	K	ĸ	E	S	A	V	R	P
			P	V	\mathbf{r}	V	Ľ	מ	A	V	π	F

Fig.9(i)

V

G

R

1 cgt	tgo	eget	gcc	tgc	gcc	cag	laac	tcg	ıgga	
ccc	JCCC	cgg	gtc	ccc	ggg	rtcc	gcg	rcca	ıtgg	
CCC	laac	ctag	iggc	ccg	ATC	AGC	CCC	CTG	CTG	
1					M	S	Р	L	L	-17
CTG	GCI	'CGC	ACC	CAG	GCC	CCT	'GTG	TCC	CAG	
L	А	R	\mathbf{T}	Q	A	P	V	S	Q	4
GTG	CCA	TGG	ATA	.GAC	GTT	TAT	GCA	.CGT	GCC	
V	P	M	I	D	V	Y	А	R	A	24
CTG	AGC	'ATG	GAA	CTC	ATG	GGC	AAT	GTG	GTC	
L	S	M	E	L	M	G	N	V	V	44
CAG	CGC	ጥርጥ	ርርጥ	ccc	ጥርር	ጥረረ	CCT	C A C	CAT	
Q	R	C	G	G	C	C	P	D D	D	64
Ž	17	C	G	G I	C	C	T	כנ	D	04
CAA	CTC	CCA	አ ጥር	CAC	ነ አጥሮ	CTC	<u>አ</u> ጥር	አ ጥር	CAC	
Q	V	R	M M	Q Q	I	L L	M M	I	Q	84
Z	V	11	1.1	Q	-	יינ	1.1	٠,4	ν,	04
·CTG	CCN	C N N	CAC	አርር	ር አ አ	ա հե տ	$\alpha \lambda \lambda$	ጥርር	λCλ	
L	G	E	H	ngc S	CAA Q	C	E E	C C	R	104
1.1	1	لبلد	11	ט	×	C	ئ _س ل	_	1.	104
GACAGGGTTGCCATACCCCACCACCGTCCC										
D	R	V	A	I	Р	Н	Н	R	P	124
ACCCCGGGAGCACCCTCCCCAGCTGACATC										
										4.4
T	Р	G	A	Р	S	P	A	D	I	144

Fig.9(ii)

~~~~									
496	ATCCAT	PCCCAC	TCC	AGCC	CCI	AGGA	ATC	CTCT	
	I H	P T		A	Р	G	S	S	
				S	P	R	I	L	
556	CTGACC	CCCGG	ACCI	rgcc	CGTT	GCC	CGCI	rgta	
	L T	P G	P	Α	V	A	Α	V	
	P D	P R	Т	С	R	С	R	С	
616	GGGGCT	TAGAG	CTCA	AACC	CAG	BACI	ACC1	TGTA	
	G A	*							
	R G	L E	L	N	P	D	T	С	
676	ctttcc	agact	ccac	ggg	ıccc	ggc	etgo	ettt	
736	agcaca	iggcgt	aacc	ctcc	tca	igto	ctgg	ggag	
796	gagcto	tatag	ccat	ctt	tta	tct	ccc	caga	
856	atgtct	cacct	cago	iggc	cag	ıggt	act	ctc	
916	ttctgg	ıctggc	tgtc	ctcc	cct	cac	ctat	gaa	
976	gggttc	tgtta	tgat	aac	tgt	gac	caca	acac	_
1036	gacact	aaaaa	aaaa	ıaaa	laaa	laaa	aaa	aaaa	

Fig.9(iii)

SUBSTITUTE SHEET (RULE 26)

GC	CCG	;CCT	ጥርር	a cc	CZC	CGC	CGC	ር አ አ	CGCC	
				ACC P	cag S					1 ( 1
C	P						_A	N	A 	164
	P	P	С	${ m T}$	Q	R	R	Q	R	130
	CCC	000	aaai	TITIO .	~m~	~		~		
					CTC	CA'I''	I'GC(	CAA	GGGC	
D	) A	. A	A	S	S	I	A	K	G	184
R	R	R	R	$\mathbf{F}$	L	Η	С	Q	G	150
ļ										
GG	TGC	CGG	AAGO	CCG	CGAZ	AAG:	ГGА	caac	gctg	
								`	,	186
R	С	R	K	P	R	K '	r			167
				-	1.	11				107
ta	taa	cact	act	itica	acac	ıaas	าตลล	เสลด	ıtgg	
									aga	
gctgccatctaacaattgtcaaggaacctc										
tcacttaaccaccctggtcaagtgagcatc										
aaccccaaacttctaccaataacgggattt										
aca	acacactcacactct <b>gataaa</b> agagatgga									
aaa	aaaa	aaaa	เลลล							

Fig.9(iv)

SUBSTITUTE SHEET (RULE 26)

41/52	42/52
Fig 10(i)	Fig 10(ii)

SUBSTITUTE SHEET (RULE 26)

Α

hVRF167

mVRF186

Fig.10(i)

166 TPGPAVAAVDAAASSIAKGGA*

Fig.10(ii)

44/52	45/52
Fig 11(i)	F1g 11(i1)

mVRF167	-21	MSPLLRRLLLVALLQL
mVEGF188	-26	::  :      MNFLLSWVHWTLALLLYLHH
mVRF167	25	TCQPREVVVPLSMELMGNVV
mVEGF188	24	YCRPIETLVDIFQEYPDEIE
mVRF167	75	QVRMQILMIQYPSSQ.LGEM :    :     :
mVEGF188	74	: {  :      :      NITMQIMRIKPHQSQHIGEM
mVRF167	119	ILCPPC :
mVEGF188	124	QKRKRKKSRFKSWSVHCEPC
mVRF167	152	GLELNPDTCRCRKPRK
mVEGF188	173	QLELNERTCRCDKPRR

Fig.11(i)

AR.TQAPVSQFDGPSHQKKVVPWIDVYARA	24
:   : :  : : : ::	23
KQLVPSCVTVQRCGGCCPDDGLECVPTGQH :      :   :     ::     ::	74
YIFKPSCVPLMRCAGCCNDEALECVPTSES	73
SLGEHSQCECRPKKKESAVRPDSPR	118
SFLQHSRCECRPKKDRTKPEKKSVRGKGKG	123
TQRRQRPDPRTCRCRCRRRRFLHCQGR	151
:  :      :   : : :  SERRKHLFVQDPQTCKCSCKNTDS.RCKAR	172
•	167
	188

Fig.11(ii)

The last face of the la

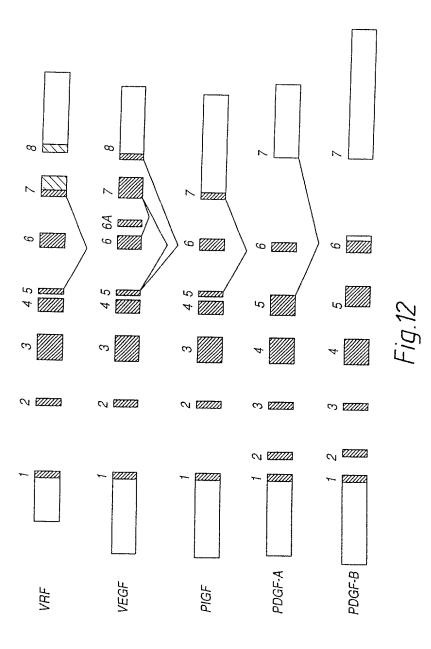


Fig.13

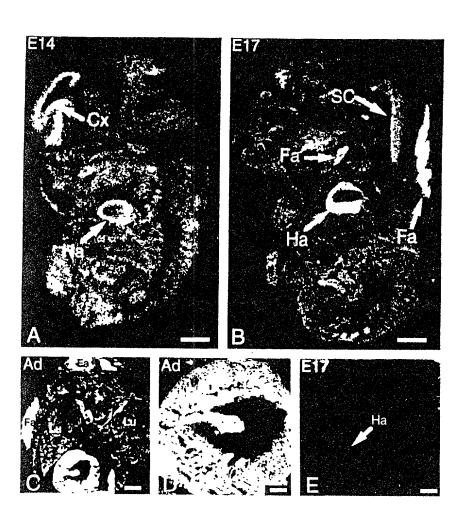
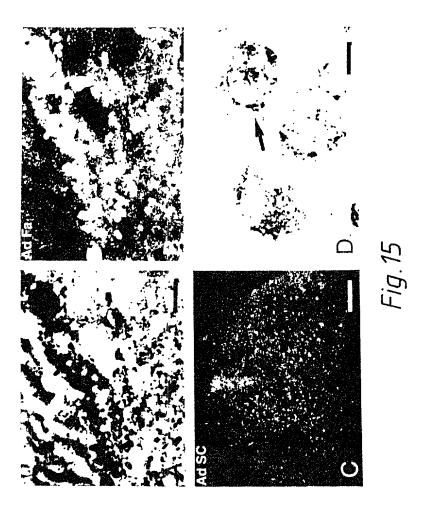


Fig.14



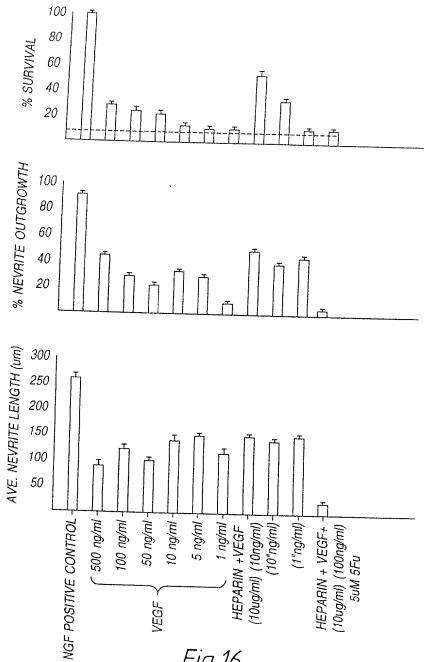


Fig. 16

